

Title (en)
Optimizing receipt of call/broadcast paging messages by self-powered wireless communications devices

Title (de)
Optimierung der Empfangsbestätigung von Telefon- und Funkrufnachrichten durch drahtlose Kommunikationsvorrichtungen mit eigener Stromquelle

Title (fr)
Optimiser la réception de messages d'appels/diffusion par des dispositifs de communications sans fil autoalimentés

Publication
EP 2019565 A1 20090128 (EN)

Application
EP 08016211 A 20050111

Priority
• EP 05705466 A 20050111
• US 75616004 A 20040112

Abstract (en)
A wireless communications network (120) responds to each incoming call placed to a wireless communications device (134) by transmitting a call-paging message (418) within a corresponding partition of a digital radio frame of prescribed format. Responsive to each occurrence of a broadcast event (404), the network transmits (414) a repeating broadcast-paging message announcing the availability of broadcast-paging message announcing the availability of broadcast content from the network. The broadcast-paging message is transmitted multiple times within each digital radio frame. Another sequence (500) describes WCD operation in this network. Responsive to wakeup (502) from sleep, the WCD detects (509) received signal quality. The WCD also receives (510) scheduled network transmission of a call-paging message and a number of instances (at least one) of a repeating network transmission of a call-paging message and a number of instances (at least one) of a repeating network transmitted broadcast-paging message that occurs multiple times for each scheduled transmission of the call-paging message. This number varies inversely with the detected signal quality.

IPC 8 full level
H04W 68/00 (2009.01); **H04J 13/00** (2011.01); **H04W 52/02** (2009.01)

IPC 8 main group level
H04W 4/00 (2018.01)

CPC (source: EP KR US)
G10L 19/00 (2013.01 - KR); **H03M 7/30** (2013.01 - KR); **H04W 52/0216** (2013.01 - EP KR US); **H04W 68/00** (2013.01 - EP KR US); **Y02D 30/70** (2020.08 - EP KR US)

Citation (search report)
• [X] US 6157815 A 20001205 - COLLINS DAVID NOEL [US], et al
• [A] US 5870673 A 19990209 - HAARTSEN JACOBUS CORNELIS [SE]

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
US 2005153714 A1 20050714; US 7715855 B2 20100511; AT E539584 T1 20120115; AU 2005207379 A1 20050804; AU 2005207379 B2 20091210; BR PI0506784 A 20070522; CA 2553021 A1 20050804; CA 2718638 A1 20050804; CN 1918938 A 20070221; CN 1918938 B 20101208; EP 1714520 A2 20061025; EP 1714520 B1 20111228; EP 1874074 A2 20080102; EP 1874074 A3 20080827; EP 1874074 B1 20130227; EP 2019565 A1 20090128; EP 2019565 B1 20171025; EP 2271164 A1 20110105; IL 176770 A0 20061031; JP 2007518371 A 20070705; JP 2010213341 A 20100924; JP 2012090299 A 20120510; JP 4550834 B2 20100922; JP 5265749 B2 20130814; KR 100857032 B1 20080905; KR 100887200 B1 20090306; KR 20060103470 A 20060929; KR 20080025745 A 20080321; RU 2006129314 A 20080220; RU 2341044 C2 20081210; TW 200539722 A 20051201; UA 89627 C2 20100225; US 2010184455 A1 20100722; US 2012149402 A1 20120614; US 2012149403 A1 20120614; US 8155676 B2 20120410; US 8615260 B2 20131224; US 8620357 B2 20131231; WO 2005072001 A2 20050804; WO 2005072001 A3 20050929

DOCDB simple family (application)
US 75616004 A 20040112; AT 05705466 T 20050111; AU 2005207379 A 20050111; BR PI0506784 A 20050111; CA 2553021 A 20050111; CA 2718638 A 20050111; CN 200580004689 A 20050111; EP 05705466 A 20050111; EP 07012052 A 20050111; EP 08016211 A 20050111; EP 10176214 A 20050111; IL 17677006 A 20060710; JP 2006549526 A 20050111; JP 2010111292 A 20100513; JP 2011257825 A 20111125; KR 20067016307 A 20060811; KR 20087001690 A 20080121; RU 2006129314 A 20050111; TW 94100894 A 20050112; UA A200608992 A 20050111; US 2005000822 W 20050111; US 201113331034 A 20111220; US 201113331050 A 20111220; US 71789110 A 20100304